Lineal

```
1 #include <stdio.h>
 2 #include <unistd.h>
 3 #include <sys/types.h>
 5 #define N 10
7 int main()
8
      int tid, i;
9
10
11
      for(i = 0; i < N; i++){}
           tid = fork();
12
13
          if(tid != 0){
14
15
               break;
16
17
      }
18
      printf("Mi valor de i es %d y mi pid es %d\n", i, getpid());
19
20
21
      sleep(30);
22
23
      return 0;
24
```

Abanico

```
1 #include <stdio.h>
 2 #include <unistd.h>
 3 #include <sys/types.h>
 4
5 #define N 10
 6
7 int main(){
8
9
      int tid, i;
10
11
      for(i = 0; i < N; i++){
12
           tid = fork();
13
14
           if(tid == 0){
15
               break;
16
      }
17
18
      printf("Mi valor de i es %d y mi pid es %d\n", i, qetpid());
19
20
      sleep(30);
21
22
23
      return 0;
24 }
```

Zapato (system)

```
1 #include <stdio.h>
2 #include <unistd.h>
3 #include <sys/types.h>
 4 #include <stdlib.h>
6 #define N 10
8 int main(){
10
      int tid, i;
11
12
     for(i = 0; i < N; i++){</pre>
          tid = fork();
13
14
15
          if(tid != 0){
16
              break;
17
18
      }
19
      printf("Mi valor de i es %d, mi padre es %d y mi abuelo es %d \n", i, getpid(), getppid());
20
21
22
      if(i == (N-1)){
          system("./system1");
23
24
25
      if(i == N){
26
          system("./system2");
27
28
29
30
31
      sleep(30);
32
33
      return 0;
34 }
```

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```

Zapato (execl)

```
1 #include <stdio.h>
 2 #include <unistd.h>
 3 #include <sys/types.h>
 4 #include <stdlib.h>
6 #define N 10
8 int main(){
      int tid, i;
10
      for(i = 0; i < N; i++){</pre>
11
12
          tid = fork();
          if(tid != 0){
13
14
              break;
15
      }
16
17
18
      printf("Mi valor de i es %d, mi padre es %d y mi abuelo es %d \n", i, getpid(), getppid());
19
      if(i == (N-1)){
20
21
          tid = fork();
22
          if(tid == 0){
               execl("./execl1", "Soy execl1", NULL);
23
24
25
     }
26
27
      if(i == N){
          tid = fork();
28
          if(tid == 0){
29
30
              execl("./execl2", "Soy execl2", NULL);
31
32
33
      sleep(30);
34
      return 0;
35 }
```